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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/693,429	10/23/2003	J. Rodney Walton	030417	2025
	7590 04/07/2008 INCORPORATED	EXAMINER		
5775 MOREHO	OUSE DR.	SMITH, MARCUS		
SAN DIEGO, (JA 92121		ART UNIT	PAPER NUMBER
			2619	
			NOTIFICATION DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

us-docketing@qualcomm.com kascanla@qualcomm.com nanm@qualcomm.com

Application No. Applicant(s) 10/693,429 WALTON ET AL. Office Action Summary Examiner Art Unit MARCUS R. SMITH 2619 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
 - after SIX (6) MONTHS from the mailing date of this communication.

- Failu Any) pend of or roply is specified above, the miscorn statutory pend ow will apply and will expert SIX (by MXM HIS from the making cate of this communication, it is to roply within the set or extended period roply will by statute, cause the application to bocome ABMOXDNE GO SU.S.C.§ 133), exply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any of patient read may be sufficient to the communication of the second period period period of the second period		
Status			
1)🛛	Responsive to communication(s) filed on 23 October 2003.		
2a)□	This action is FINAL . 2b) ☐ This action is non-final.		
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is		
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposit	ion of Claims		
4)🖂	Claim(s) 1-60 is/are pending in the application.		
	4a) Of the above claim(s) is/are withdrawn from consideration.		
5)	Claim(s) is/are allowed.		
6)	Claim(s) is/are rejected.		
7)	Claim(s) is/are objected to.		
0.17			

. /						
8) Claim(s) <u>1-60</u> are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						

10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a).

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

a) ☐ All b) ☐ Some * c) ☐ None of:

	1.	Certified copies of the priority documents have been received.
	2.	Certified copies of the priority documents have been received in Application No
	3.	Copies of the certified copies of the priority documents have been received in this National Stage
		application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patient Drawing Review (PTO-948) 3) Information-Disclosure Statement(s) (PTO/SSIDE) Paper No(s)Mail Date	4) Interview Summary (PTO-413) Paper No(s)Mail Date. 5) Notice of Informal Patent Affication 6) Other:	
S. Potent and Trademark Office		

Application/Control Number: 10/693,429 Page 2

Art Unit: 2619

DETAILED ACTION

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-21, drawn to transmitting data by scheduling one user based on spatial multiplex mode and rate, classified in class 370, subclass 468.
- Claims 22-34, drawn to transmitting data by scheduling twos user based on spatial multiplex mode and rate for each user, classified in class 370, subclass 465.
- Claims 35-39, 49-60, drawn to transmitting data by coding and modulating two different data symbol streams, classified in class 375, subclass 295.
- IV. Claims 40-48, drawn to receiving data by performing spatial processing, demodulating, and decoding on two different data symbol streams, classified in class 375, subclass 316.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions 1-4 are directed to related MIMO system communication. The related inventions are distinct if: (1) the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect; (2) the inventions do not overlap in scope, i.e., are mutually exclusive; and (3) the inventions as claimed are not obvious variants. See MPEP § 806.05(j). In the instant case, the inventions as claimed provide a different utility and purpose in a MIMO system (See above for their described differences). Furthermore, the inventions as claimed do

Application/Control Number: 10/693,429 Page 3

Art Unit: 2619

not encompass overlapping subject matter and there is nothing of record to show them to be obvious variants.

- 3. Restriction for examination purposes as indicated is proper because all these inventions listed in this action are independent or distinct for the reasons given above and there would be a serious search and examination burden if restriction were not required because one or more of the following reasons apply:
 - (a) the inventions have acquired a separate status in the art in view of their different classification:
 - (b) the inventions have acquired a separate status in the art due to their recognized divergent subject matter;
 - (c) the inventions require a different field of search (for example, searching different classes/subclasses or electronic resources, or employing different search queries);
 - (d) the prior art applicable to one invention would not likely be applicable to another invention:
 - (e) the inventions are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

Application/Control Number: 10/693,429

Art Unit: 2619

The election of an invention may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention.

If claims are added after the election, applicant must indicate which of these claims are readable upon the elected invention.

Should applicant traverse on the ground that the inventions are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/693,429

Art Unit: 2619

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCUS R. SMITH whose telephone number is (571)270-1096. The examiner can normally be reached on Mon-Thurs: 7:30 am - 5:00 p.m. and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on 571 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MRS 3/19/08

/CHAU T. NGUYEN/

Supervisory Patent Examiner, Art Unit 2619